

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>OIA/1737/PCT</b>	FOR FURTHER ACTION      see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/KR 2003/002285</b>	International filing date (day/month/year) <b>28 October 2003 (28.10.2003)</b>	(Earliest) Priority Date (day/month/year) <b>28 October 2002 (28.10.2002)</b>
Applicant <b>INNOWIRELESS CO., LTD.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.: 1

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 03/02285-0

### Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A data monitoring system in communication network has the global position system (GPS) receiver (90), a packet data collecting device (20,90) and a mobile station-packet data serving node monitoring system (MPMS) (10). The GPS receiver (90) provides time information which is received from the GPS satellites (100). The packet data collecting device (70,80) collects the communication protocol and communication environment information between a base station (30) and a packet data serving node (PDSN) (50), together with the time information provided by the GPS receiver (90). The MPMS (10) receives wireless communication environment, data communication environment and mobile communication protocol of the mobile station (20) from the mobile station (20) together with the GPS time information, and receives packet data communication environment and data communication protocol of the mobile station (20) from the packet data collecting device (70,80) together with the time information, and monitors and analyzes on a single time axis. Accordingly, wireless communication environment and data environment between mobile communication network and data communication network, can be monitored and analyzed on a single time axis.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 03/02285-0

## CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H04B 17/00, H04L 12/00, H04M 11/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: G01S 15/14, H04B 17/00, H04L 12/00, 12/14, 12/46, 12/56, 29/00, H04M 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2002/017561 A1 (TELEFONAKTIEBOLAGET L M ERICSSON) 28 February 2002 (28.02.2002) <i>fig.2, claim 16.</i>	1
A	WO 1997/006626 A1 (LADUE) 20 February 1997 (20.02.1997) <i>fig.1; page 6, line 27 - page 7, line 27.</i>	1
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☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&amp;“ document member of the same patent family

Date of the actual completion of the international search

31 March 2004 (31.03.2004)

Date of mailing of the international search report

23 June 2004 (23.06.2004)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

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Form PCT/ISA/210 (second sheet) (July 1998)

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 03/02285-0

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
WO	A	19970066 26		none	
WO	A	20020175 61		none	